

WHAT IS CLAIMED IS:

1. A safety indwelling syringe, comprising:

a hollow needle to be inserted into a body of a patient;

a fixed sheath fixing the hollow needle and covering the

5 needle partly; and

a protective sheath slidably fitted to the fixed sheath;

wherein,

the protective sheath is pulled away from the fixed sheath

toward the tip of the hollow needle, covering the needle

10 entirely.

2. A safety indwelling syringe as set forth in claim 1,

wherein the protective sheath is slidably fitted inside the
fixed sheath.

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3. A safety indwelling syringe as set forth in claim 1,

wherein the protective sheath is slidably fitted outside the
fixed sheath.

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4. A safety indwelling syringe as set forth in claim 1,

wherein the protective sheath comprises two or more slide
sheaths.

5. A safety indwelling syringe as set forth in claim 1,

25 further comprising:

a pair of wings; wherein,

at least one of the two wings is coupled to the protective
sheath to be pulled for pulling out the protective sheath.

6. A safety indwelling syringe as set forth in claim 5, wherein:

the other wing of the two wings is coupled to the fixed sheath; and

5 the hollow needle is exposed when the two wings are aligned symmetrically, and the hollow needle is covered by the protective sheath when the two wings are slid in directions to distance the wings from one another.

10 7. A safety indwelling syringe, comprising:

a hollow needle to be inserted into a body of a patient;

a fixed sheath fixing the hollow needle and covering the needle partly; and

a protective sheath slidably fitted to the fixed sheath;

15 wherein,

the protective sheath and the fixed sheath have a locking means for restricting the sliding movement of the sheaths from one another, and the protective sheath is pulled out from the fixed sheath toward the tip of the hollow needle and locked,

20 covering the needle entirely.

8. A safety indwelling syringe as set forth in claim 7, wherein the locking means comprises a locking slot and a locking projection.

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9. A safety indwelling syringe as set forth in claim 8, wherein:

each of the fixed sheath and the protective sheath has a wing, and when the wings are aligned symmetrically, the hollow

needle is exposed, and when the sheaths are slid in directions to distance the wings from one another and locked, the protective sheath covers the hollow needle entirely.

- 5 10. A safety indwelling syringe, comprising:
 a hollow needle to be inserted into a body of a patient;
 a plurality of telescopic sheaths covering part of the hollow needle;
 a protective sheath being prevented from slipping out
 10 from inside the telescopic sheaths, and having an elongated shape to be inserted into a catheter for supporting the catheter at a front end thereof; and
 a flexible adapter fixed on an outer periphery of a proximal end portion of the protective sheath; wherein,
 15 the protective sheath covers the hollow needle entirely when the telescopic sheaths are extended.
11. A safety indwelling syringe as set forth in claim 10, wherein the flexible adapter is made from rubber.